

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 10/084,706

CRF Processing Date: 3/28/2002
 Edited by: _____
 Verified by: [Signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII.
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____.
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A) Length" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OICE

RAW SEQUENCE LISTING

DATE: 03/28/2002

PATENT APPLICATION: US/10/084,706

TIME: 12:18:54

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282002\J084706.raw

```

4 <110> APPLICANT: RASMUSSEN, Poul Baad
5   DRUSTRUP, Jorn
6   RASMUSSEN, Grethe
7   PEDERSEN, Anders Hjelholt
8   SCHAMBYE, Hans Thalsg+rd
9   ANDERSEN, Kim Vilbour
10  BORNES, Claus
11  Maxygen ApS
12  Maxygen Holdings Ltd.
14 <120> TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
17 <130> FILE REFERENCE: 0228us410
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/084,706
C--> 19 <141> CURRENT FILING DATE: 2002-02-26
19 <150> PRIOR APPLICATION NUMBER: US 60/272,116
20 <151> PRIOR FILING DATE: 2001-02-27
22 <150> PRIOR APPLICATION NUMBER: US 60/343,436
23 <151> PRIOR FILING DATE: 2001-12-21
25 <150> PRIOR APPLICATION NUMBER: US 60/302,140
26 <151> PRIOR FILING DATE: 2001-06-29
28 <150> PRIOR APPLICATION NUMBER: US 60/316,170
29 <151> PRIOR FILING DATE: 2001-08-30
31 <150> PRIOR APPLICATION NUMBER: not yet assigned
32 <151> PRIOR FILING DATE: 2002-02-19
34 <150> PRIOR APPLICATION NUMBER: DK PA 2001 00333
35 <151> PRIOR FILING DATE: 2001-03-01
37 <150> PRIOR APPLICATION NUMBER: US 09/648,569
38 <151> PRIOR FILING DATE: 2000-08-25
40 <160> NUMBER OF SEQ ID NOS: 57
42 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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46 <212> TYPE: DNA
47 <213> ORGANISM: Homo sapiens
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51 <222> LOCATION: (76)...(636)
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RAW SEQUENCE LISTING

DATE: 03/28/2002

PATENT APPLICATION: US/10/084,706

TIME: 12:18:54

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282002\J084706.raw

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63 ttc cta caa aga agc agc aat ttt cag tgt cag aag ctc ctg tgg caa 207
64 Phe Leu Gln Arg Ser Ser Asn Phe Gln Cys Gln Lys Leu Leu Trp Gln
65          30          35          40
67 ttg aat ggg agg ctt gaa tac tgc ctc aag gac agg atg aac ttt gac 255
68 Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys Asp Arg Met Asn Phe Asp
69 45          50          55          60
71 atc cct gag gag att aag cag ctg cag cag ttc cag aag gag gac gcc 303
72 Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln Phe Gln Lys Glu Asp Ala
73          65          70          75
75 gca ttg acc atc tat gag atg ctc cag aac atc ttt gct att ttc aga 351
76 Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg
77          80          85          90
79 caa gat tca tct agc act ggc tgg aat gag act att gtt gag aac ctc 399
80 Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu
81          95          100          105
83 ctg gct aat gtc tat cat cag ata aac cat ctg aag aca gtc ctg gaa 447
84 Leu Ala Asn Val Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu
85          110          115          120
87 gaa aaa ctg gag aaa gaa gat ttc acc agg gga aaa ctc atg agc agt 495
88 Glu Lys Leu Glu Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser
89 125          130          135          140
91 ctg cac ctg aaa aga tat tat ggg agg att ctg cat tac ctg aag gcc 543
92 Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala
93          145          150          155
95 aag gag tac agt cac tgt gcc tgg acc ata gtc aga gtg gaa atc cta 591
96 Lys Glu Tyr Ser His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu
97          160          165          170
99 agg aac ttt tac ttc att aac aga ctt aca ggt tac ctc cga aac 636
100 Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn
101          175          180          185
103 tgaagatctc ctagcctgtg cctctgggac tggacaattg cttcaagcat tcttcaacca 696
104 gcagatgctg ttttaagtgc tgatggctaa tgtactgcat atgaaaggac actagaagat 756
105 tttgaaattt ttattaaatt atgagttatt tttattttatt taaattttat tttggaaaat 816
106 aaattatttt tggtgcaaaa gtca 840
109 <210> SEQ ID NO: 2
110 <211> LENGTH: 166
111 <212> TYPE: PRT
112 <213> ORGANISM: Homo sapiens
114 <220> FEATURE:
115 <221> NAME/KEY: CHAIN
116 <222> LOCATION: (1)...(166)
117 <223> OTHER INFORMATION: hIFNB mature sequence
119 <400> SEQUENCE: 2
120 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
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122 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln

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125          35          40          45
126 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
127          50          55          60
128 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
129 65          70          75          80
130 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
131          85          90          95
132 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
133          100          105          110
134 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
135          115          120          125
136 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
137          130          135          140
138 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
139 145          150          155          160
140 Thr Gly Tyr Leu Arg Asn
141          165
144 <210> SEQ ID NO: 3
145 <211> LENGTH: 70
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: primer
152 <400> SEQUENCE: 3
153 ggctagcggtt taaacttaag cttcgccacc atgaccaaca agtgccctgct ccagatcgcc 60
154 ctgctcctgt 70
156 <210> SEQ ID NO: 4
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158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: primer
164 <400> SEQUENCE: 4
165 acaacctgct cggcttctctg cagaggagtt cgaacttcca gtgccagaag ctccctgtggc 60
166 agctgaacgg 70
168 <210> SEQ ID NO: 5
169 <211> LENGTH: 70
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171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: primer
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177 gaacttcgac atccccgagg aaatcaagca gctgcagcag ttccagaagg aggacgccgc 60
178 tctgaccatc 70
180 <210> SEQ ID NO: 6
181 <211> LENGTH: 70
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:

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186 <223> OTHER INFORMATION: primer
188 <400> SEQUENCE: 6
189 ttccgccagg actccagctc caccggttgg aacgagacca tcgtggagaa cctgctggcc 60
190 aacgtgtacc 70
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201 aggagaagct ggagaaggag gacttcaccc ggggcaagct gatgagotcc ctgcacctga 60
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204 <210> SEQ ID NO: 8
205 <211> LENGTH: 70
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: primer
212 <400> SEQUENCE: 8
213 ggagtacagc cactgcgcct ggaccatcgt acgcgtggag atcctgcgca acttctactt 60
214 catcaaccgc 70
216 <210> SEQ ID NO: 9
217 <211> LENGTH: 70
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: primer
224 <400> SEQUENCE: 9
225 caccacactg gactagtgga tccttatcag ttgcgcaggt agccggtcag gcggttgatg 60
226 aagtagaagt 70
228 <210> SEQ ID NO: 10
229 <211> LENGTH: 70
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: primer
236 <400> SEQUENCE: 10
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238 tcaggtgcag 70
240 <210> SEQ ID NO: 11
241 <211> LENGTH: 70
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: primer
248 <400> SEQUENCE: 11
249 ggccagcagg

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Input Set : A:\PTO.txt

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254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: primer
260 <400> SEQUENCE: 12
261 gagctggagt cctggcgga gatggcgaag atgttctgca gcatctcgta gatggtcaga 60
262 gcggcgctcct 70
264 <210> SEQ ID NO: 13
265 <211> LENGTH: 70
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: primer
272 <400> SEQUENCE: 13
273 cctcggggat gtcgaagttc atcctgtcct tcaggcagta ctccaggcgc ccgttcagct 60
274 gccacaggag 70
276 <210> SEQ ID NO: 14
277 <211> LENGTH: 70
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: primer
284 <400> SEQUENCE: 14
285 caggaagccg agcaggttgt agctcatcga tagggccgtg gtgctgaagc acaggagcag 60
286 ggcgatctgg 70
288 <210> SEQ ID NO: 15
289 <211> LENGTH: 70
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: primer
296 <400> SEQUENCE: 15
297 ctgctccaga tcgcctgct cctgtgcttc agcaccacgg ccctatcgat gaagcaccag 60
298 caccagcatc 70
300 <210> SEQ ID NO: 16
301 <211> LENGTH: 70
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: primer
308 <400> SEQUENCE: 16
309 cactgcttac tggcttatcg aaattaatac gactcactat agggagaccc aagctggcta 60
310 gcgtttaaac 70
312 <210> SEQ ID NO: 17
313 <211> LENGTH: 70
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY

DATE: 03/28/2002

PATENT APPLICATION: US/10/084,706

TIME: 12:18:55

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282002\J084706.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date



OIPE

RAW SEQUENCE LISTING

DATE: 03/28/2002

PATENT APPLICATION: US/10/084,706

TIME: 12:17:23

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282002\J084706.raw

4 <110> APPLICANT: RASMUSSEN, Poul Baad
 5 DRUSTRUP, Jorn
 6 RASMUSSEN, Grethe
 7 PEDERSEN, Anders Hjelholt
 8 SCHAMBYE, Hans Thalsg+rd
 9 ANDERSEN, Kim Vilbour
 10 BORNS, Claus
 11 Maxygen ApS
 12 Maxygen Holdings Ltd.
 14 <120> TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
 17 <130> FILE REFERENCE: 0228us410
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/084,706
 C--> 19 <141> CURRENT FILING DATE: 2002-02-26
 19 <150> PRIOR APPLICATION NUMBER: US 60/272,116
 20 <151> PRIOR FILING DATE: 2001-02-27
 22 <150> PRIOR APPLICATION NUMBER: US 60/343,436
 23 <151> PRIOR FILING DATE: 2001-12-21
 25 <150> PRIOR APPLICATION NUMBER: US 60/302,140
 26 <151> PRIOR FILING DATE: 2001-06-29
 28 <150> PRIOR APPLICATION NUMBER: US 60/316,170
 29 <151> PRIOR FILING DATE: 2001-08-30
 31 <150> PRIOR APPLICATION NUMBER: not yet assigned
 32 <151> PRIOR FILING DATE: 2002-02-19
 34 <150> PRIOR APPLICATION NUMBER: DK PA 2001 00333
 35 <151> PRIOR FILING DATE: 2001-03-01
 37 <150> PRIOR APPLICATION NUMBER: US 09/648,569
 38 <151> PRIOR FILING DATE: 2000-08-25
 40 <160> NUMBER OF SEQ ID NOS: 57
 42 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

797 <210> SEQ ID NO: 57
 798 <211> LENGTH: 166
 799 <212> TYPE: PRT
 800 <213> ORGANISM: Homo sapiens
 801 <214> FEATURE:
 802 <215> ORIGIN:
 803 <216> COMMENT:
 805 <400> SEQUENCE: 57
 806 Met Ser Tyr Asn Leu Leu Gly Phe Leu Arg Ser Ser Asn Phe Gln
 807 1 5 10 15
 808 Ser Gln Arg Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu

RAW SEQUENCE LISTING

DATE: 03/28/2002

PATENT APPLICATION: US/10/084,706

TIME: 12:17:23

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282002\J084706.raw

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809          20          25          30
810 Arg Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Arg Gln Leu Gln
811          35          40          45
812 Asn Phe Thr Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
813          50          55          60
814 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
815 65          70          75          80
816 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
817          85          90          95
818 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Phe Asn Thr
819          100          105          110
820 Thr Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
821          115          120          125
822 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
823          130          135          140
824 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
825 145          150          155          160
826 Thr Gly Tyr Leu Arg Asn
827          165

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E--> 828 (10)

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/084,706

DATE: 03/28/2002

TIME: 12:17:24

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282002\J084706.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:828 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:57